

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P157768

Luminaire Tested: **VST-E03-LED-E-U-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157768
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33710)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E03-LED-E-U-5XQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8007.5 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U1 - G3

Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

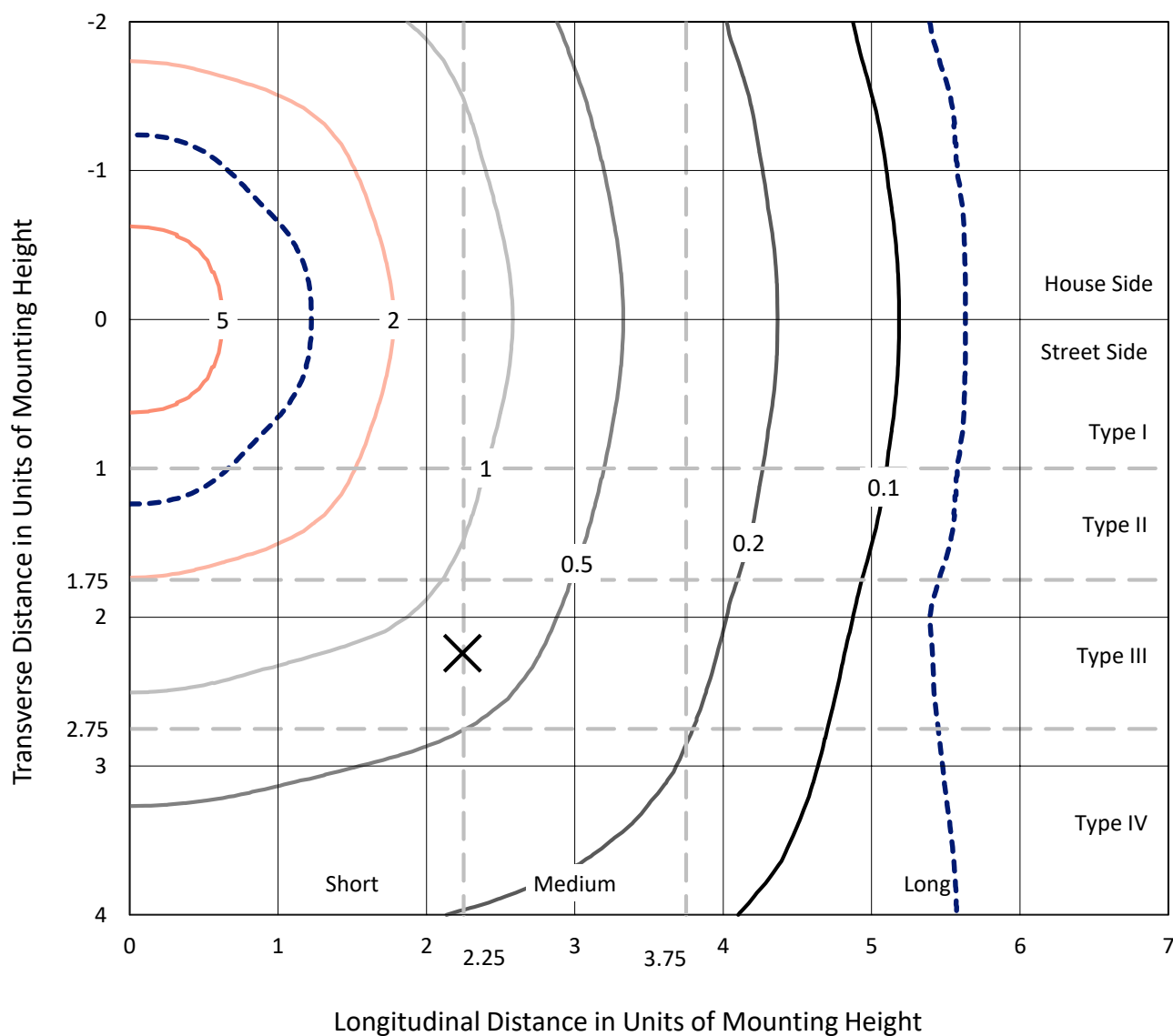


REPORT NUMBER: P157768

CATALOG NUMBER: VST-E03-LED-E-U-5XQ-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

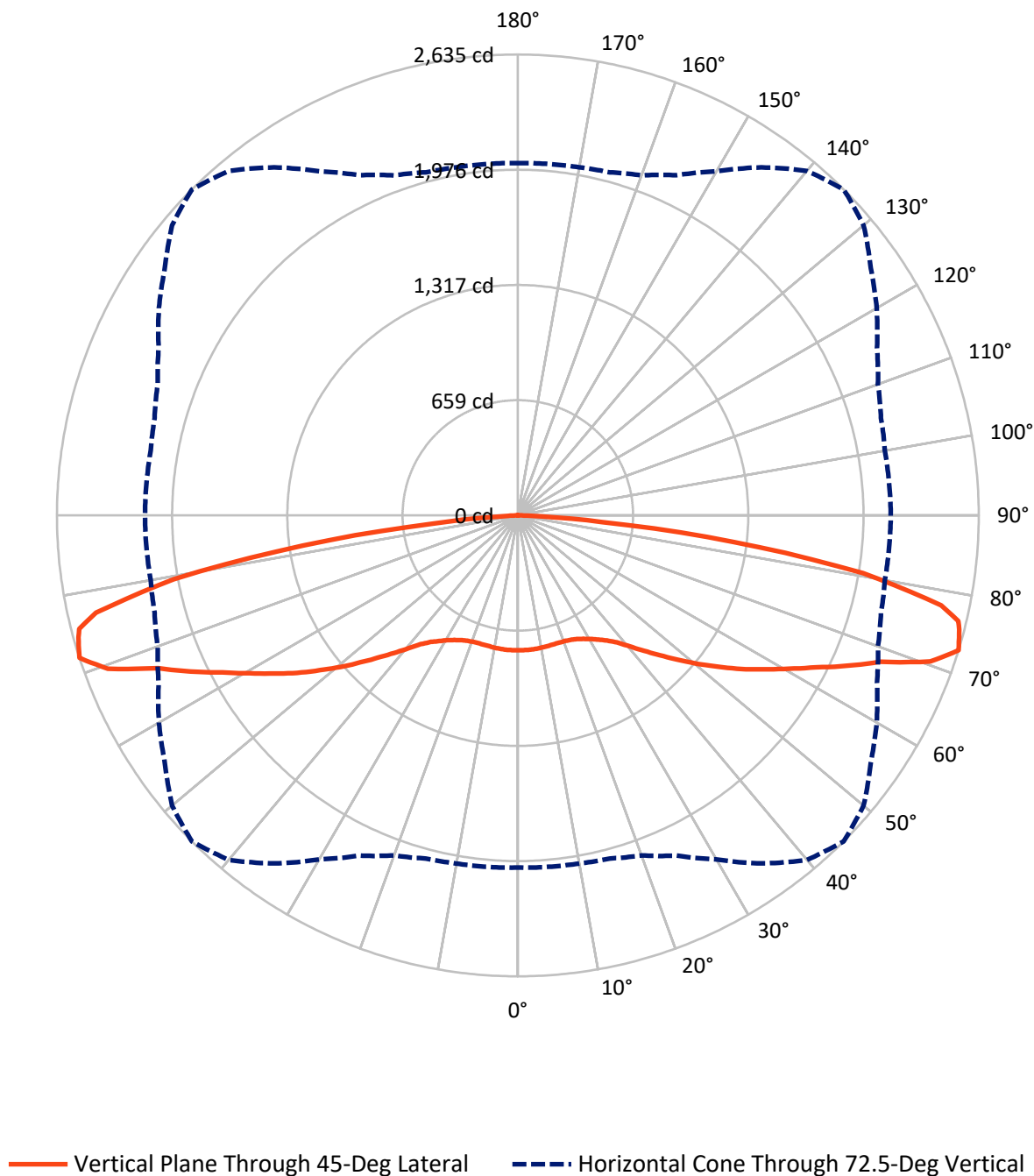


Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
Type V - Short - Non-Cutoff

REPORT NUMBER: P157768

CATALOG NUMBER: VST-E03-LED-E-U-5XQ-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P157768

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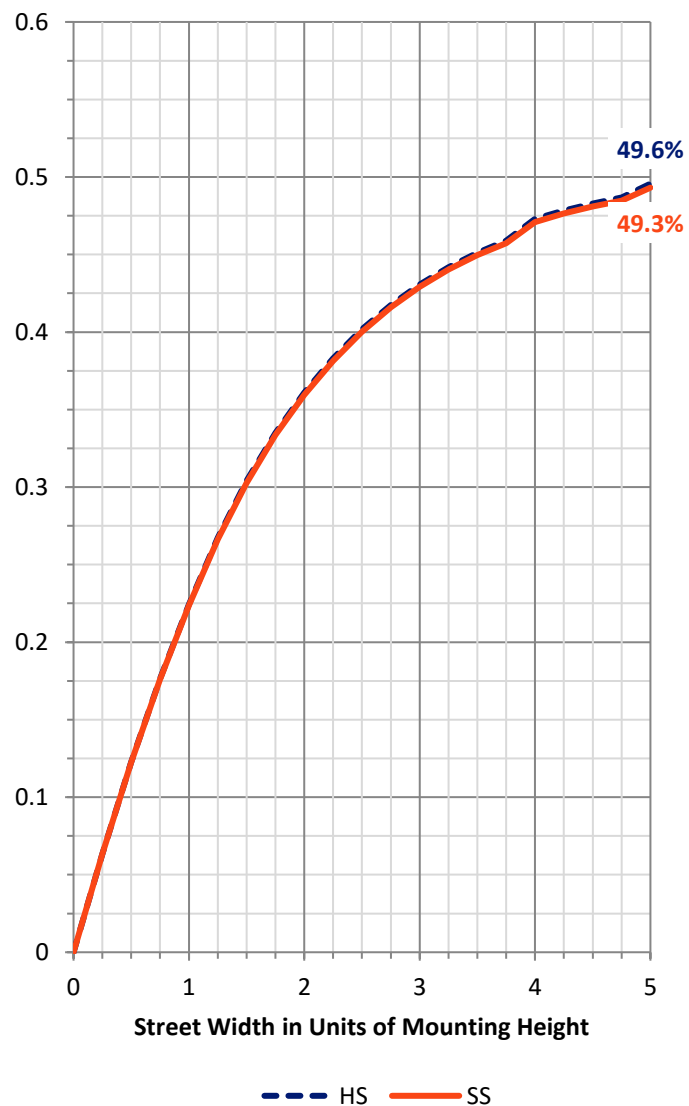
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4001.8	1.9	4003.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4001.8	1.9	4003.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	8003.7	3.9	8007.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	0.9
10°-20°	217.2	2.7
20°-30°	363.2	4.5
30°-40°	552.0	6.9
40°-50°	874.3	10.9
50°-60°	1337.4	16.7
60°-70°	1914.0	23.9
70°-80°	2190.1	27.3
80°-90°	482.0	6.0
90°-100°	0.4	0.0
100°-110°	0.8	0.0
110°-120°	0.6	0.0
120°-130°	0.6	0.0
130°-140°	0.6	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	8003.7	100.0
0°-180°	8007.5	100.0

Coefficient of Utilization



REPORT NUMBER: P157768

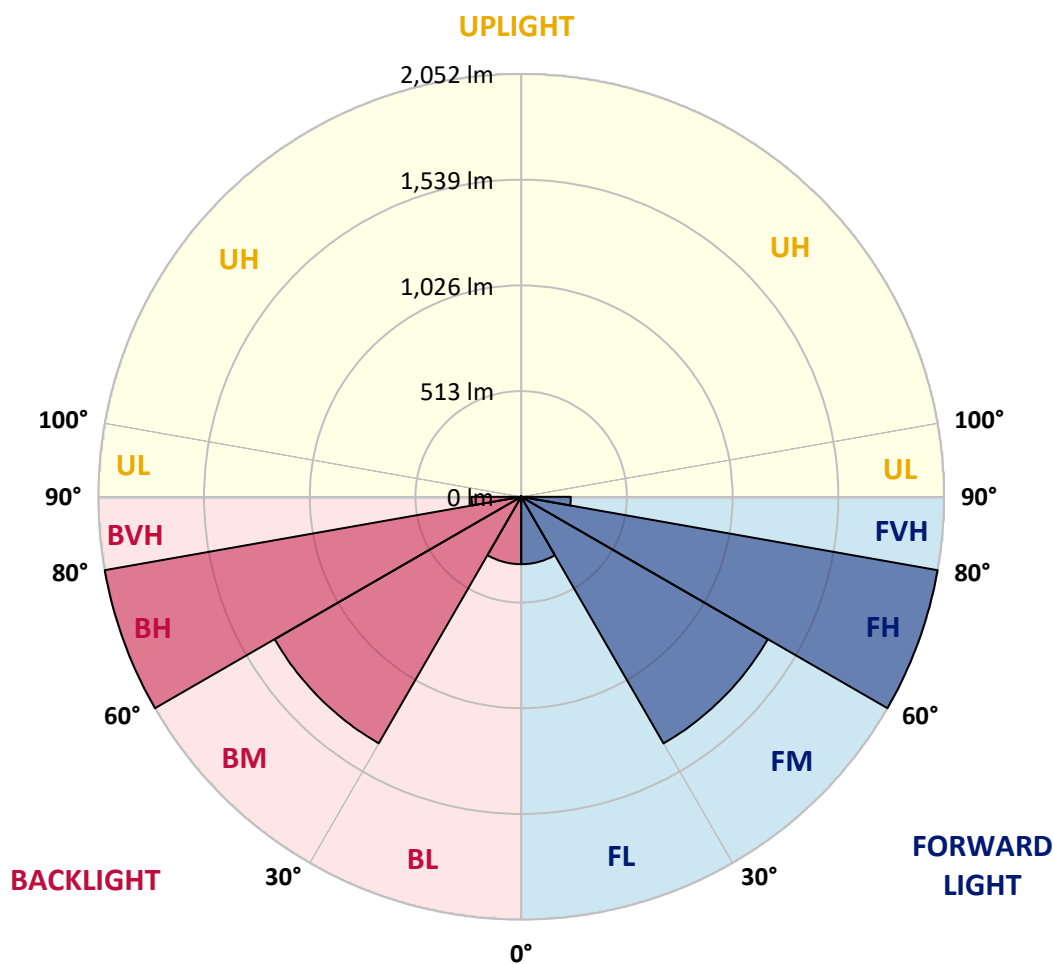
CATALOG NUMBER: VST-E03-LED-E-U-5XQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	327.0	4.1			
FM	(30°-60°)	1381.8	17.3			
FH	(60°-80°)	2052.0	25.6			G2/5000
FVH	(80°-90°)	241.0	3.0			G3/500
BL	(0°-30°)	327.0	4.1	B1/500		
BM	(30°-60°)	1381.8	17.3	B2/2500		
BH	(60°-80°)	2052.0	25.6	B3/2500		G2/5000
BVH	(80°-90°)	241.0	3.0			G3/500
UL	(90°-100°)	0.4	0.0		U1/10	
UH	(100°-180°)	1.9	0.0		U1/10	

BUG Rating: B3-U1-G3

Type V Short





REPORT NUMBER: P157768

CATALOG NUMBER: VST-E03-LED-E-U-5XQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8
2.5°	771.2	770.2	770.8	771.7	771.2	771.2	770.8	770.8	771.7	770.8	771.2
5°	771.7	770.8	771.2	771.7	771.2	771.7	771.2	771.2	771.2	770.8	771.7
7.5°	769.7	769.7	770.2	770.2	769.7	770.2	770.2	770.2	769.7	769.7	770.8
10°	768.7	768.2	768.2	768.7	768.2	768.2	768.7	768.7	767.7	767.7	768.7
12.5°	767.2	766.7	766.7	766.7	766.2	766.2	766.7	766.7	766.2	765.7	767.2
15°	766.2	765.7	765.7	765.7	764.6	765.2	765.2	765.2	764.6	764.2	765.7
17.5°	765.7	765.2	765.2	765.2	764.6	764.6	764.6	764.6	764.2	764.2	765.2
20°	766.7	766.7	766.7	766.7	766.2	766.2	766.2	766.7	766.7	766.7	767.7
22.5°	769.2	769.2	769.7	770.2	770.2	771.2	771.7	772.3	772.3	772.7	773.8
25°	775.8	775.8	776.3	776.8	778.3	779.3	781.4	782.4	782.9	782.9	783.4
27.5°	787.9	788.5	789.5	790.5	792.5	794.0	796.1	798.1	798.6	799.1	799.6
30°	803.2	803.6	805.7	806.7	809.2	812.3	814.8	816.8	818.3	819.4	818.8
32.5°	824.9	825.9	828.5	830.0	833.5	836.6	840.1	843.1	844.7	846.2	845.7
35°	855.3	857.8	860.3	861.9	865.4	868.0	872.5	875.6	878.6	877.6	878.1
37.5°	900.4	902.4	902.9	903.9	907.4	909.5	914.5	918.6	920.1	921.1	921.7
40°	961.1	961.1	963.7	961.6	966.2	966.7	972.8	978.4	979.9	983.9	980.9
42.5°	1032.1	1031.5	1033.0	1031.5	1031.5	1036.6	1041.7	1051.8	1052.8	1057.9	1054.8
45°	1109.0	1109.0	1107.5	1108.0	1109.0	1114.6	1120.7	1131.8	1136.9	1139.9	1137.8
47.5°	1192.6	1190.5	1190.0	1189.5	1192.6	1198.6	1207.7	1218.4	1231.0	1232.0	1231.0
50°	1277.1	1276.6	1273.1	1276.1	1278.1	1281.2	1298.4	1312.6	1325.8	1333.9	1331.3
52.5°	1366.3	1361.7	1361.7	1361.7	1366.7	1376.4	1391.6	1410.8	1428.5	1437.1	1435.6
55°	1456.4	1454.9	1450.3	1448.3	1454.9	1468.6	1490.3	1513.6	1536.9	1550.1	1545.0
57.5°	1538.9	1536.4	1536.9	1537.4	1545.0	1563.2	1588.6	1619.5	1644.8	1658.9	1655.4
60°	1603.7	1600.7	1606.3	1607.8	1621.5	1651.9	1692.4	1731.4	1764.8	1778.9	1773.4
62.5°	1677.2	1675.1	1678.7	1678.2	1692.9	1726.8	1781.0	1843.3	1893.9	1912.1	1904.0
65°	1795.7	1789.6	1788.1	1782.5	1792.1	1818.5	1872.7	1945.1	2026.1	2072.7	2061.5
67.5°	1937.5	1936.0	1930.9	1927.9	1931.4	1964.3	2016.5	2086.3	2168.9	2233.2	2247.4
70°	2031.1	2033.2	2038.3	2045.8	2075.2	2139.0	2234.2	2340.1	2453.5	2501.6	2493.0
72.5°	2013.4	2016.5	2020.5	2030.2	2068.6	2145.1	2270.7	2428.7	2570.9	2634.8	2580.1
75°	1926.8	1929.4	1938.5	1953.2	2000.3	2092.9	2228.2	2395.7	2542.6	2606.4	2549.2
76°	1846.8	1854.9	1871.6	1888.9	1945.6	2046.4	2190.7	2369.4	2524.9	2589.7	2534.5
77.5°	1665.5	1672.6	1686.3	1716.2	1780.5	1909.6	2078.2	2254.0	2416.0	2474.2	2427.7
80°	1253.3	1259.4	1272.1	1308.0	1363.7	1443.7	1574.4	1746.1	1923.8	2000.3	1969.9
82.5°	529.2	536.3	586.4	638.6	699.8	786.4	871.5	1023.4	1154.1	1241.2	1194.6
85°	58.3	71.9	88.6	120.5	147.8	197.0	245.1	337.3	426.4	480.5	424.9
87.5°	10.1	11.6	16.7	21.2	23.8	27.4	32.9	46.1	62.8	54.2	55.2
90°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
97.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
102.5°	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0
105°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
107.5°	0.5	0.5	0.5	0.5	1.0	1.0	0.5	0.5	0.5	1.0	0.5



REPORT NUMBER: P157768

CATALOG NUMBER: VST-E03-LED-E-U-5XQ-8030

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
112.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
115°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
117.5°	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
120°	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
122.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
125°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
127.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
130°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5
132.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
135°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5
137.5°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5
140°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5
142.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
145°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.0	0.5
147.5°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5
150°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.0	0.0	0.0
152.5°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.0	0.0
155°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.0	0.5
157.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0
160°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0
162.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0
165°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P157768

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8
2.5°	770.8	770.8	771.7	771.2	771.2	771.7	772.7	772.3
5°	771.2	771.7	770.8	771.2	771.7	771.7	772.3	771.7
7.5°	770.2	770.2	770.2	770.8	771.2	770.8	771.2	771.2
10°	768.2	768.7	768.2	769.2	769.7	769.7	770.2	770.2
12.5°	766.7	766.7	766.7	767.7	768.2	768.2	768.7	768.2
15°	765.2	765.2	764.6	765.7	766.7	766.7	767.2	767.2
17.5°	764.6	764.6	764.2	765.2	766.2	766.2	766.7	766.7
20°	766.2	766.7	765.7	766.7	767.7	768.2	768.2	768.2
22.5°	772.3	771.7	770.2	770.8	771.2	771.2	771.2	771.2
25°	781.4	780.4	778.9	778.3	777.8	777.3	777.3	777.3
27.5°	797.0	795.5	793.0	792.5	792.0	791.0	791.0	791.0
30°	815.8	813.8	810.7	809.7	808.2	807.2	806.7	806.2
32.5°	842.6	838.6	835.0	832.5	831.0	827.9	827.5	826.4
35°	873.5	870.5	865.4	863.9	861.4	859.9	859.4	856.8
37.5°	916.1	912.5	908.0	907.0	906.4	904.9	904.9	904.4
40°	975.3	971.8	967.7	963.7	964.7	965.2	965.2	963.2
42.5°	1047.7	1042.1	1034.0	1036.6	1035.1	1033.0	1037.1	1034.6
45°	1130.3	1122.7	1116.6	1114.1	1114.1	1111.6	1115.6	1115.6
47.5°	1222.0	1209.8	1198.6	1199.2	1195.1	1196.1	1198.6	1202.2
50°	1318.7	1302.4	1291.8	1286.8	1282.7	1284.2	1288.8	1289.8
52.5°	1418.9	1399.1	1385.0	1377.4	1372.3	1374.4	1377.9	1381.0
55°	1523.2	1501.4	1480.2	1472.1	1466.0	1470.1	1470.5	1474.6
57.5°	1632.1	1602.2	1577.4	1565.3	1559.2	1563.2	1566.3	1570.3
60°	1742.0	1707.5	1678.2	1664.0	1655.4	1661.0	1668.1	1670.1
62.5°	1869.6	1822.0	1789.1	1768.9	1764.8	1770.4	1772.4	1778.5
65°	2020.5	1963.3	1917.7	1892.9	1891.9	1894.9	1899.5	1901.0
67.5°	2192.7	2128.9	2067.6	2042.8	2033.2	2042.3	2046.8	2052.9
70°	2435.8	2348.2	2259.5	2204.3	2181.1	2174.0	2176.0	2182.6
72.5°	2463.1	2368.9	2265.6	2190.7	2149.6	2130.9	2130.4	2131.4
75°	2403.4	2252.9	2180.0	2093.9	2035.7	2005.3	2001.3	2000.8
76°	2373.5	2195.7	2090.4	2022.1	1952.2	1921.3	1916.7	1914.2
77.5°	2247.4	2056.4	1898.0	1856.5	1789.6	1750.6	1758.7	1752.1
80°	1801.7	1612.4	1463.0	1346.0	1349.5	1321.2	1309.6	1306.0
82.5°	1061.9	906.4	741.4	644.6	552.5	528.2	454.7	438.1
85°	339.3	240.5	145.9	105.8	71.9	60.2	47.1	43.0
87.5°	45.1	35.5	28.9	27.8	25.3	21.8	14.2	10.1
90°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
97.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
102.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5
105°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
107.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



REPORT NUMBER: P157768

CATALOG NUMBER: VST-E03-LED-E-U-5XQ-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
112.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
115°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
117.5°	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
120°	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
122.5°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
125°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
127.5°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
130°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
132.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
135°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
137.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
140°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
142.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
145°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
147.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
150°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
152.5°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
155°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
157.5°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
160°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
162.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
165°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)